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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/025,723	12/18/2001		Jeffrey Scott Hepburn	198-1276	2242
22844	7590	02/08/2005		EXAM	INER
		ECHNOLOGIES, L	TRAN, BINH Q		
SUITE 600 - PARKLANE TOWERS EAST ONE PARKLANE BLVD.				ART UNIT	PAPER NUMBER
DEARBOR	DEARBORN, MI 48126			3748	
				DATE MAILED: 02/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/025,723	HEPBURN ET AL.					
Office Action Summary	Examiner	Art Unit					
	BINH Q. TRAN	3748					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
2a) ☐ This action is FINAL . 2b) ☑ This	· ·						
•—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5) □ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-7 and 10-18</u> is/are rejected. 7) ☑ Claim(s) <u>8 and 9</u> is/are objected to.	4a) Of the above claim(s) is/are withdrawn from consideration.)□ Claim(s) is/are allowed.)□ Claim(s) <u>1-7 and 10-18</u> is/are rejected.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the prio application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-7, and 10-18 are rejected under 35 U.S.C. 102 (b) as being anticipated by Takaoka et al. (Takaoka) (Patent Number 6,393,834).

Regarding claims 1, 10-11, and 15, Takaoka discloses a system and method for controlling a temperature of an emission control device (e.g. 26) receiving exhaust gases from an engine (11), the device being coupled adjacent and downstream of an oxidation catalyst (23), said system comprising: a reductant valve (29) selectively supplying reductant to said exhaust gases responsive to a first signal; a throttle valve (13) controlling flow of said exhaust gases to said oxidation catalyst responsive to a second signal; and a controller (15) operably connected to said reductant valve and said throttle valve, said controller generating said first and second signals to control a mixture of

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said exhaust gases and said reductant flowing into said oxidation catalyst to control a temperature of said emission control device (e.g. See col. 4, lines 1-67; col. 6, lines 7-67; col. 7, lines 1-65).

Regarding claims 2 and 16, Takaoka further discloses that the temperature is controlled while said mixture is rich of stoichiometry and NOx is being removed from said emission control device (e.g. See col. 4, lines 1-67; col. 6, lines 7-67; col. 7, lines 1-65).

Regarding claims 3 and 17, Takaoka further discloses that the temperature is controlled while said mixture is rich of stoichiometry and SOx is being removed from said emission control device (e.g. See col. 5, lines 4-62).

Regarding claims 4 and 18, Takaoka further discloses that the temperature is controlled while said mixture is lean of stoichiometry and said emission control device is oxidizing particulate matter (e.g. See col. 4, lines 1-67; col. 6, lines 7-67; col. 7, lines 1-65).

Regarding claim 5, Takaoka further discloses that the step of indicating when NOx needs to be removed from said emission control device (e.g. See col. 4, lines 1-67; col. 6, lines 7-67; col. 7, lines 1-65).

Regarding claim 6, Takaoka further discloses that the step of indicating when SOx needs to be removed from said emission control device (e.g. See col. 5, lines 4-62).

Regarding claim 7, Takaoka further discloses that the step of indicating when particulate matter needs to be removed from said emission control device (e.g. See col. 4, lines 1-67; col. 6, lines 7-67; col. 7, lines 1-65).

Regarding claim 12, Takaoka further discloses that the emission control device comprises a NOx trap (e.g. See col. 3, lines 15-67).

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Regarding claim 13, Takaoka further discloses that the emission control device comprises a combined NOx trap-particulate filter (e.g. See col. 3, lines 15-67).

Regarding claim 14, Takaoka further discloses that the a temperature sensor (28) generating a third signal indicative of a temperature in said oxidation catalyst, said third signal being received by said controller (e.g. See col. 3, lines 15-67).

Allowable Subject Matter

Claims 8-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Since allowable subject matter has been indicated, applicant is encouraged to submit formal drawings in response to this Office action. The early submission of formal drawings will permit the Office to review the drawings for acceptability and to resolve any informalities remaining therein before the application is passed to issue. This will avoid possible delays in the issue process.

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and consists of five patents:

Hirota et al. (Pat. No. 6233925), Hirota et al. (Pat. No. 5974791), Hanaoka et al. (Pat. No. 6397582), Hirota et al. (Pat. No. 6708486), and Nakatani et al. (Pat. No. 6834496) all discloses an exhaust gas purification for use with an internal combustion engine.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Binh Tran whose telephone number is (571) 272-4865. The

examiner can normally be reached on Monday-Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (571) 272-4859. The fax phone numbers for the organization

where this application or proceeding is assigned are (703) 872-9306 for regular communications

and for After Final communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BT

February 07, 2005

Binh Q. Tran

Patent Examiner

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